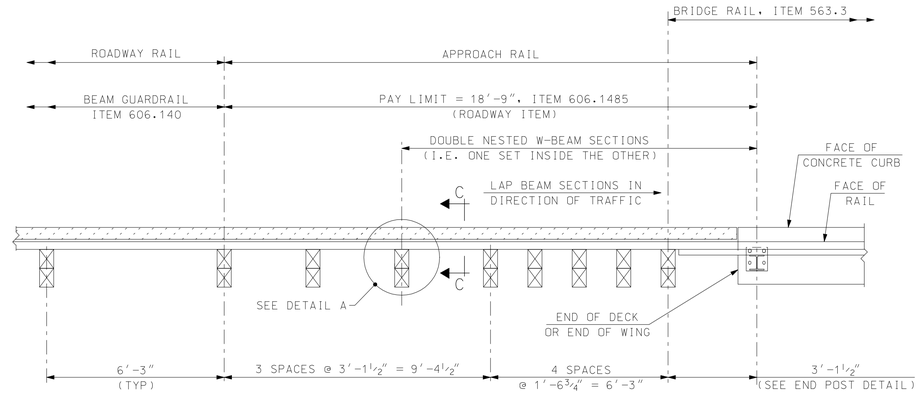
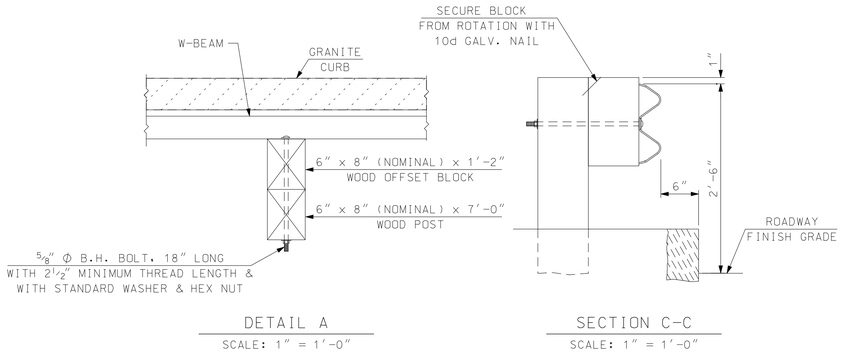


APPROACH RAIL LAYOUT

SCALE: $\frac{3}{8}$" = 1'-0"

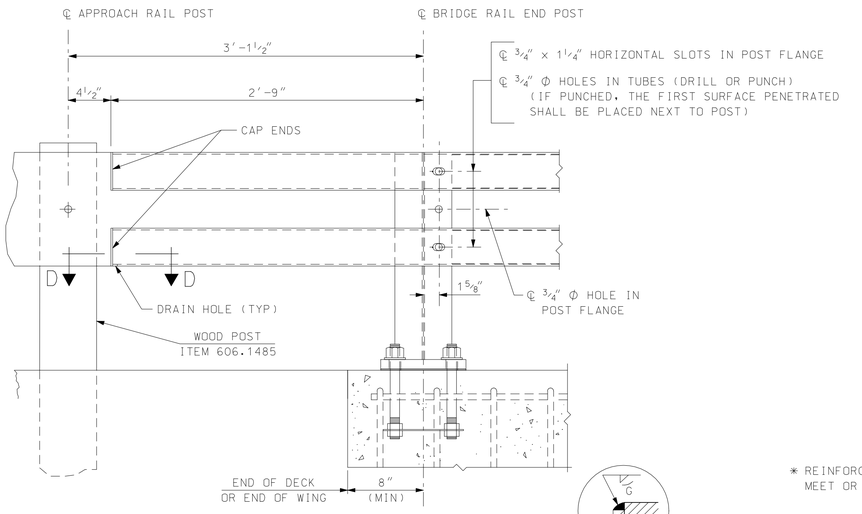


DETAIL A

SCALE: 1" = 1'-0"

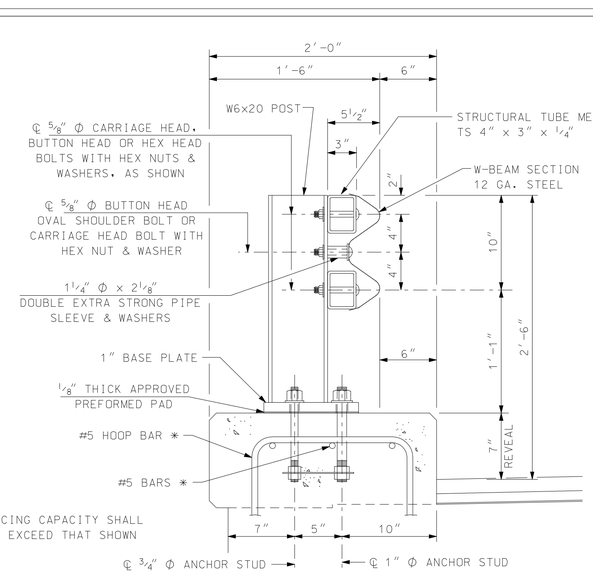
SECTION C-C

SCALE: 1" = 1'-0"



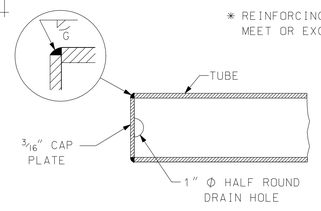
END POST DETAIL

SCALE: 1½" = 1'-0"



BRIDGE RAIL DETAIL

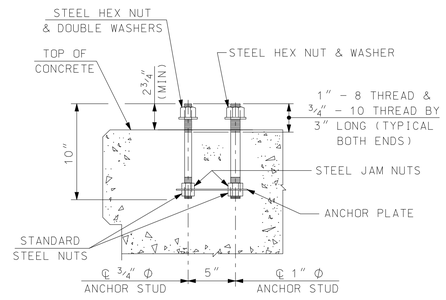
SCALE: 1½" = 1'-0"



RAIL CAP DETAIL

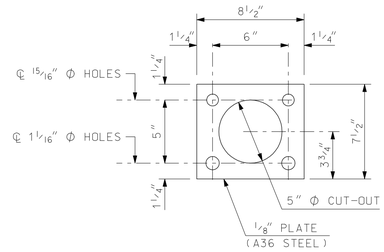
(SECTION D-D)

SCALE: 3" = 1'-0"



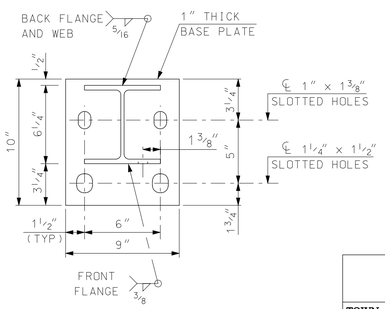
POST ANCHOR ASSEMBLY

SCALE: 1½" = 1'-0"



ANCHOR PLATE DETAIL

SCALE: 2" = 1'-0"

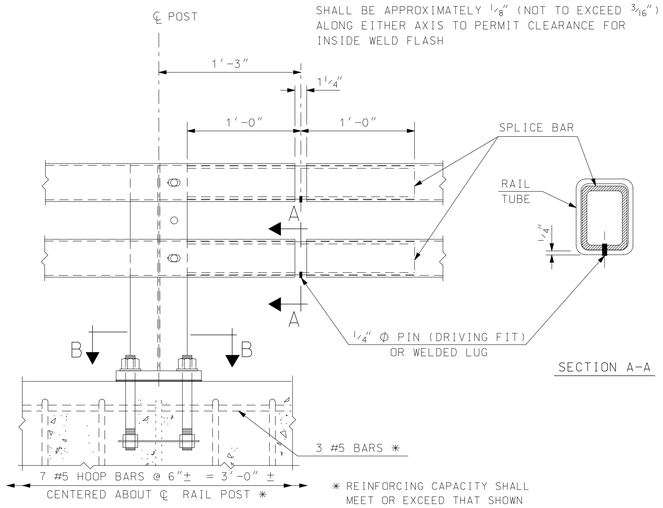


BASE PLATE DETAIL

(SECTION B-B)

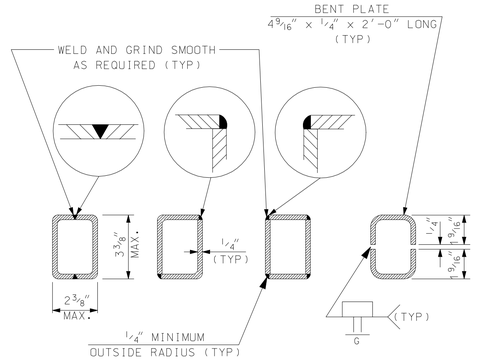
SCALE: 2" = 1'-0"

NOTE: THE DIFFERENCE BETWEEN THE OUTSIDE DIMENSIONS OF SPLICE BARS AND THE INSIDE DIMENSIONS OF THE RAIL SHALL BE APPROXIMATELY ⅛" (NOT TO EXCEED 3/16") ALONG EITHER AXIS TO PERMIT CLEARANCE FOR INSIDE WELD FLASH



TYPICAL SPLICE

SECTION A-A



NOTE: OTHER SECTIONS OF EQUAL OR GREATER STRENGTH ARE ACCEPTABLE FOR SPLICE BARS

SPLICE BAR FABRICATION OPTIONS

SPLICE BAR DETAILS

NOT TO SCALE

GENERAIL NOTES

(1) ITEM 563.3, BRIDGE RAIL T101 (F), SHALL INCLUDE POSTS, BASE PLATES, ANCHOR PLATES, ANCHOR STUDS, PREFORMED PADS, RAIL ASSEMBLY BOLTS, NUTS, WASHERS, STRUCTURAL TUBING, SPLICE BARS, PIPE SLEEVES AND W-BEAM SECTIONS.
- ASTM A588 : POSTS AND BASE PLATES
- ASTM A500 GRADE B (PAINTED) OR ASTM A588 (UNPAINTED) OR ASTM A847 (UNPAINTED) : STRUCTURAL TUBING
- ASTM A36 : PIPE SLEEVES AND RAIL SPLICE BARS (PAINTED) AND ANCHOR PLATES (GALVANIZED)
- ASTM A449 (GALV) : ANCHOR STUDS WITH STANDARD NUTS AND HARDENED STEEL COMMERCIAL TYPE A PLAIN WIDE WASHERS
- A325 TYPE 3 : RAIL BOLTS, NUTS AND WASHERS
- AASHTO M180 TYPE IV : W-BEAM SECTIONS

(2) MEMBERS TO BE PAINTED SHALL FIRST BE GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH AASHTO M111 (ASTM A123) AND THEN OUTSIDE SURFACES SHALL BE SHOP PAINTED WITH ONE COAT OF 708 NH 3.21, HIGH BUILD EPOXY POLYAMIDE (4-6 MILS DFT) AND ONE COAT OF 708 NH 3.81, ALIPHATIC POLYURETHANE (1.5 TO 2.5 MILS DFT), DARK BROWN (REFER TO SPECIAL PROVISIONS FOR SECTION 550 FOR PAINT SPECIFICATIONS). EXPOSED ANCHOR BOLTS, NUTS, WASHERS & RAIL BOLTS SHALL BE PAINTED DARK BROWN IN THE FIELD WITH NH 3.81.

(3) HOLES IN BASE PLATES SHALL BE FILLED FLUSH WITH ELASTOMERIC SEALANT AFTER RAIL INSTALLATION (SUBSIDIARY TO ITEM 563.3).

(4) STRUCTURAL TUBING SHALL BE SUPPLIED AS ONE PIECE FOR BRIDGE RAIL 40 FEET OR LESS IN LENGTH. IN OTHER CASES, TUBING SHALL BE SPLICED WITH A SPLICE BAR (SEE SPLICE BAR DETAILS). NO TRANSVERSE BUTT WELDS ARE PERMITTED ON RAIL TUBING WITHIN A CONTINUOUS LENGTH.

(5) EACH PIECE OF RAIL TUBING SHALL BE ATTACHED TO A MINIMUM OF THREE POSTS.

(6) FOR BRIDGE RAIL POST SPACING, SEE BRIDGE RAIL LAYOUT. THE MAXIMUM BRIDGE RAIL POST SPACING SHALL BE 8'-4". A POST SPACING OF 8'-4" OR 6'-3" IS RECOMMENDED WHENEVER POSSIBLE FOR USE WITH 25' SECTIONS OF THE STANDARD W-BEAM RAIL.

(7) PREFORMED BEARING PADS SHALL CONFORM TO AASHTO M251.

(8) NUTS FOR THREADED ANCHOR STUDS CONNECTING THE BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL ⅛ TURN.

(9) THIS RAIL SYSTEM HAS BEEN SUCCESSFULLY EVALUATED BY FULL-SCALE CRASH TESTS TO MEET NCHRP REPORT 230 SL-2 CRITERIA (TEXAS TRAFFIC RAIL TYPE T101, REVISED 9/89).

(BROWN - 7" CURB REVEAL)

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN

TOWN	BRIDGE NO.	STATE PROJECT
LOCATION		

T101 BRIDGE & APPROACH RAIL (STEEL)

BRIDGE SHEET OF

REVISIONS AFTER PROPOSAL	BY	DATE		BY	DATE
	DESIGNED	TEXAS/JSZ	3/90	CHECKED NHDOT	
	DRAWN	PJP	12/05	CHECKED NHDOT	12/05
	QUANTITIES			CHECKED	
	ISSUE DATE	3/6/91	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
	REV. DATE	8/30/06			

FILE NUMBER

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
English/T101	T101-7BROWN	AS NOTED